

Table of Contents

Model Checking: One Can Do Much More Than You Think!	1
<i>Joost-Pieter Katoen</i>	
Proposition Algebra and Short-Circuit Logic	15
<i>Jan A. Bergstra and Alban Ponse</i>	
Decompositional Reasoning about the History of Parallel Processes	32
<i>Luca Aceto, Arnar Birgisson, Anna Ingólfssdóttir, and MohammadReza Mousavi</i>	
A Model-Based Development Approach for Model Transformations	48
<i>Shekoufeh Kolahdouz-Rahimi and Kevin Lano</i>	
Analyzing Component-Based Systems on the Basis of Architectural Constraints	64
<i>Christian Lambertz and Mila Majster-Cederbaum</i>	
Constructive Development of Probabilistic Programs	80
<i>Hassan Haghighi and Mohammad Mahdi Javanmard</i>	
Composing Real-Time Concurrent Objects: Refinement, Compatibility and Schedulability	96
<i>Mohammad Mahdi Jaghoori</i>	
Specification Guidelines to Avoid the State Space Explosion Problem	112
<i>Jan Friso Groote, Tim W.D.M. Kouters, and Ammar Osaiweran</i>	
Strong Normalisation in λ -Calculi with References	128
<i>Romain Demangeon, Daniel Hirschkoﬀ, and Davide Sangiorgi</i>	
Compositional Reasoning for Markov Decision Processes (Extended Abstract)	143
<i>Yuxin Deng and Matthew Hennessy</i>	
Safe Locking for Multi-threaded Java	158
<i>Einar Broch Johnsen, Thi Mai Thuong Tran, Olaf Owe, and Martin Steffen</i>	
Analysing the Control Software of the Compact Muon Solenoid Experiment at the Large Hadron Collider	174
<i>Yi-Ling Hwong, Vincent J.J. Kusters, and Tim A.C. Willemse</i>	
A Distributed Logic for Networked Cyber-Physical Systems	190
<i>Minyoung Kim, Mark-Oliver Stehr, and Carolyn Talcott</i>	

Reachability Analysis of Non-linear Planar Autonomous Systems	206
<i>Hallstein Asheim Hansen, Gerardo Schneider, and Martin Steffen</i>	
Attacking the Dimensionality Problem of Parameterized Systems via Bounded Reachability Graphs	221
<i>Qiusong Yang, Bei Zhang, Jian Zhai, and Mingshu Li</i>	
Refinement-Based Modeling of 3D NoCs	236
<i>Maryam Kamali, Luigia Petre, Kaisa Sere, and Masoud Daneshdalan</i>	
Towards Model-Based Testing of Electronic Funds Transfer Systems	253
<i>Hamid Reza Asaadi, Ramtin Khosravi, MohammadReza Mousavi, and Neda Noroozi</i>	
Relating Modal Refinements, Covariant-Contravariant Simulations and Partial Bisimulations	268
<i>Luca Aceto, Ignacio Fábregas, David de Frutos Escrig, Anna Ingólfssdóttir, and Miguel Palomino</i>	
Decidability of Behavioral Equivalences in Process Calculi with Name Scoping	284
<i>Chaodong He, Yuxi Fu, and Hongfei Fu</i>	
Rewriting Approximations for Properties Verification over CCS Specifications	299
<i>Roméo Courbis</i>	
Type Checking Cryptography Implementations	316
<i>Manuel Barbosa, Andrew Moss, Dan Page, Nuno F. Rodrigues, and Paulo F. Silva</i>	
Intentional Automata: A Context-Dependent Model for Component Connectors (Extended Abstract)	335
<i>David Costa, Milad Niqui, and Jan Rutten</i>	
Nested Dynamic Condition Response Graphs	343
<i>Thomas Hildebrandt, Raghava Rao Mukkamala, and Tijs Slaats</i>	
Efficient Verification of Evolving Software Product Lines	351
<i>Hamideh Sabouri and Ramtin Khosravi</i>	
Extending Interface Automata with Z Notation	359
<i>Zining Cao and Hui Wang</i>	
A Specification Language for Reo Connectors	368
<i>Alexandra Silva</i>	
Author Index	377